



NITE-TIMES NEWS

CHICAGO AREA TIMEX USERS GROUP

Chicago Area Timex Users Group
Volume 5, Number 3

Downers Grove, Illinois
May/June 1991

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C.A.T.U.G. CLUB OFFICERS

Here is the list of 1991 club officers and how to contact them. The club has two strong SIGS, SPECTRUM/TS2068 and QL. If you have questions about either of these fine machines or even the ZX81/TS1000/TS1500 call one of the officers. C=312, S=708.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Nazir Pashtoon	S434-1679	The buck stops here...
Vice-President	Steve Cooper	S968-3553	Meeting Planning, etc.
Secretary	John Donaldson	S232-6147	Records and Reporting
Treasurer	Al Feng	S971-0495	Dues and Purchasing
Editor	Bob Swoger	S576-8068	Newsletter, BBS, etc.

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NITE-TIMES NEWS

Nite-Times Information

The Nite-Times News is the newsletter of the Chicago Area Timex Users Group. For an annual fee of \$12.00 you can become a CATUG member with full membership privileges. Send your dues to:

**CATUG TREASURER AL FENG
15 WAKE ROBIN CT
WOODRIDGE IL 60517**

The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting users groups at no charge. Send all newsletter requests to:

**CATUG EDITOR BOB SWOGER
613 PARKSIDE CIRCLE
STREAMWOOD IL 60107-1647**

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

Articles originating from our group may be downloaded from our BBS and reprinted.

CONTRIBUTORS TO THIS ISSUE

**James Brezina
John Donaldson
Al Feng
Nazir Pashtoon
Bob Swoger, K9WVY**

CLUB MEETINGS

The Chicago Area Timex Users Group meets on the THIRD Saturday of each month at the home of our meeting coordinator Steve Cooper in Downers Grove, Illinois from 1:00 to 5:00 PM.

Steve's home is lovingly called the CLUB HOUSE and is located at 1300 Maple Street in Downers Grove just 2 blocks southwest of the Downers Grove Public Library. Steve should be contacted evenings at 708/968-3553. to confirm the meeting schedule.

When visiting be careful of the Dutch Doooooooooooooooooooo.....

FROM THE PRESIDENTS DISK

COMMON COURTESY: WHERE IS IT?

With some exceptions - I'm upset with the Timex community in North America. To put things into perspective, I wrote to a British QUANTA member and had an answer within 11 days. I had sent 2 International Reply Coupons (IRCs) to cover the postage. A tremendous amount of copies of circuits, etc. was returned. It was obvious that the 2 IRCs didn't pay for what I had received so promptly. The same thing happened when I wrote to Germany and included \$10 for information. I received a prompt reply and more than I paid for. This is consistent with my experience with Canadians, too.

In contrast, when I wrote to someone in the U.S. and included funds to cover the copying of printed material or tape, I didn't get so much as a reply! My complaint is that we in the Timex/Sinclair NEED each other. If I have something you need or you have something I need, communication must be made on both ends. If someone asks for a price, don't treat the situation as you would in a store where the items are on a shelf and no people are involved. There, you can walk away if you don't like the price. But when you're dealing by mail, be courteous enough to reply that the price is too high or that you're no longer interested - but reply to him something!

In every case, when asking for information, send a self-

addressed stamped envelope. It is only reasonable to expect courtesy and promptness. And if courtesy and promptness is not received, I feel, you can kiss the T/S community good-bye. [Nazir was not alone in this criticism. Perhaps some of you out there will take this to heart. ED.]

Nazir Pashtoon, President
Chicago Area Timex Users Group

TREASURY NOTES

Our balance stands at \$271.13.
Our current paid membership stands at 15.

Al Feng, Treasurer
Chicago Area Timex Users Group

SECRETARY'S NOTEPAD

May 18, 1991

The meeting was called to order at 2:33 PM. Those present were Messrs. Brezina, Cooper, Donaldson, Feng, Kahale, Mills, Pagano, Pashtoon and Swoger.

Bob Swoger reported on the 3-day CoCo Fest, sponsored by the Glenside Computer Club. Though it was smaller than last year, he felt it was worth his time to be there. Radio Shack's CoCo computers haven't been made since 1989 but they are still being sold out of warehouses. Rainbow magazine, their equivalent of Update, says that never a day goes by without a new subscription. (Sinclair lovers, do we sense more than a little deja vu in this? Would that our magazine and newsletters could make the same claim as Rainbow!) Four of their machines were running 68000 chips. One, a 68070 MM1 computer running at about 15Mhz with an XT keyboard, can do 16 tasks at once. The 68070 has an excellent graphics co-processor tightly coupled to the CPU. It also has a new DOS which isn't conversant with other CoCo machines. But along comes another 68009 machine which not only emulates the old DOS but

can handle MS-DOS as well. Then there's another 68009 computer, a Tomcat, which uses all the CoCo peripherals plus an AT keyboard but not the DOS! Bob wonders if this isn't the time to build a bridge between our beloved QLs and the CoCo world.

President Pashtoon tells us that someone in QUANTA is investigating the possibility of making a 68070-based QL.

GATOR's LogiCall just went to Version 4.6 which features a brief catalog on the screen. If you wish the complete catalog, you must ask for it. This was in response to a problem Abed Kahale had with scrolling. Problem solved. Bob says that if anyone has a scrolling problem with earlier versions of LogiCall, either call him or send him a tape or disc. (But call him first.)

Regarding T/SNUG and ZXir QLive Alive! which were launched with seed money from CATUG, Bob was happy to say that the Curnutts of CCATS were the first to join T/SNUG and that others are indicating their willingness, too! One of the other groups wanted to talk about exchanging newsletters with T/SNUG. That isn't the route to take. ZXir QLive Alive! is what each User Group gets with membership. It is hoped that each User Group, in turn, will copy each issue for every member of their User Group, relieving T/SNUG of a great mailing and distribution burden. (It's a way of keeping the dues down.)

Our club library has been enhanced by donations of back issues of magazines like S.U.M. and their like and we are all grateful for that. [And a lot of it is NEWS to those who have not been longtime Sinclair addicts since the good old days of the ZX81 - or ZX80.]

The DMA ComputerFest '91 will be held in Hara Arena & Conference Center in Dayton, Ohio on August 24th and 25th. While it's not an exclusive Sinclair

event, Gary Ganger will arrange for all Sinclairites to be together. We voted to buy a table which will give the Timex/Sinclair groups a presence in the arena. We will be joined by SMUG, CATS, ISTUG, and other T/S friends.

Al Feng has introduced QCluster Lite, a new less memory-intensive version of his now-famous front end program. Look for it in vendor's ads in newsletters and Update magazine.

Bob Swoger went looking for another supply of disks and found some for about 21 cents each from MEI/Micro Center in Columbus, Ohio. They came with labels which, on close inspection, don't have high quality printing on them and although they have hub rings, the discs proved to be of paper rather than Tyvek. Nor is the surface polished. Further inspection showed them to be made in mainland China for the German market. In short, he warns us, "Buyer beware!" John Donaldson and Al Feng have both been using MEI discs without problems - but they don't look the same as Bob's sample and they didn't come with labels.

MEI's ribbons also came up for discussion. Their ribbons for Donaldson's IBM printer were actually blacker than the OEM \$8 IBM ribbon. There is a tendency for the ink to bleed when rubber cement is used on the back of the document, however. But this didn't happen on other MEI ribbons ordered for his daisy-wheel printer. The mystery deepens!

John Pagano gets discs from Silicon Express, a direct mail Apple vendor, for 29 cents each. They come packaged in plastic with sleeves and labels and he is well pleased.

Disc interfaces for the 2068 are still available from Larry Kenny and John Oliger despite a lack of active advertisement, reports Bob Swoger. So don't give up just because you haven't seen an ad lately. In

a great spirit of cooperation, John Oliger's latest version, includes a new chip which allows an Oliger machine to run MAX-DOS and read a LarKen disc!

Swoger brought an attenuator to the meeting for the Amdek color monitor. Seems the TS2068 overdrives the monitor but with a little attenuation of its intensity circuit, the display is as good as you'd want. A schematic and an article are promised for a future issue of NTN.

Nazir Pashtoon spoke about the nature of our User Group. Since our computer became an orphan so long ago, we don't see young people in our midst. He misses their spontaneity and quickness. "In the past, they were our games testers," he said. But he was leading up to the fact that we have a wide spectrum of expertise in the group and there are times when someone will go into greater detail in explaining something and at other times, won't go deep enough. His plea is for tolerance. Be patient with detailed discourses. "If," as he says, "I have not communicated, I do not know that. Don't be insulted if I go into too much detail." It is better to err in this direction than to lose someone's interest when by going too fast. He then went into the discourse presented in FROM THE PRESIDENTS DISK elsewhere in this issue.

The meeting was adjourned at 3:46 PM.

June 15, 1991

The meeting was called to order at 2:10 PM. Those present were: Messrs. Brezina, Cooper, Feng, Kahale, Mills, Pashtoon, Sauter and Swoger.

Treasurer Al Feng has sent money to the DMA ComputerFest '91 to purchase a CATUG table and for 4 reservations to date. There is talk of renting a van for the trip which would make it more comfortable and fun.

As a follow-up to his comments last month, Nazir had written to someone in the U.S. for information on the layout of a 1985 board which was made in England by Technology Research, Ltd. The information which came back after a considerable length of time was wrong and could have literally burned his computer. Alarmed by what he saw, he wrote to England and included a hand-drawn schematic with return postage and it was returned with appropriate red markings plus a four page letter. He was grateful for the explanation that this board without memory expansion must have certain pins soldered together. Since there is no vendor support in cases like this, the only support we can obtain is from each other - and we are obliged to deliver accurate information.

Bob Swoger received a Byte Power disc from Canada which allows backups when you have a single drive and to change your formatting on a disc from a single-sided 40 track disc to a double-sided 40 track disc without destroying what you already have on that disc.

Nazir tells a story about one effect of Desert Storm and its illustrious commander. In a letter to Great Britain, he signed his name N.A. Pashtoon. The reply that came back read, "Dear Norman ..."!

A discussion took place before this meeting on a new magazine called International QL Report. Its senior editor and publisher was the principal in a now defunct firm specializing in Spectrum software back in the mid-80s which was named English Micro Connection.

A letter from Dr. Sohail Bhatti who writes for QUANTA came to Nazir Pashtoon. he seeks to bring together the best minds of QUANTA to produce a new state-of-the-art hardware platform for QDOS. He asks for a '10 subscription which will help development costs and defray the cost of update

information to subscribers and includes a questionnaire.

In line with this thinking, Swoger brought in a copy of IMS's MM1 computer brochure and a Frank Hogg Laboratories' TomCat TC-9 and TC-70 computer brochure. (Hogg also makes an SR and System 4 computer.) The first 2 or 3 might be possible candidates for the platform and could reach both CoCo and QL adherents. Bob received mail from a Mr. Firestone in California who is also interested in a 1990s version of QL hardware. It begins to look like Mr. Bhatti's timing is perfect.

Robin Stevenson, a computer journalist, who is preparing an article for QL World magazine, sent along a questionnaire to determine the status of the QL and compatibles in the U.S. It will be completed and returned.

Bob Swoger has been serving (time) as editor for five newsletters has dropped one of them, Glenside Computer Club's CoCo ~ 1 2 3. Is this time off for good behavior, Bob?

After an absence of about a year, the first issue of the reborn FDD newsletter has come out under the editorship of our old friend, Jay Siegel. This N/L will be of special interest to those who own Portuguese Timex computers and peripherals. It comes with several photos of some of the people at the 1990 SMUGFest. Long life to you and your N/L, Jay!

Bob Swoger reports that 31 copies of LogiCall have been sold so far.

Steve Cooper wondered how much memory could be addressed with Larken DOS. Bob Swoger's answer was 809.31 Kb. OMNI from the Toronto Timex-Sinclair Users Club betters that by about 20 Kb but may put head alignment in jeopardy.

The meeting was adjourned at 2:55 PM.

There were two demos following the meeting: one covered Al Feng's QLumsI and QLUster Lite (a QL to MS-DOS emulation) by the programmer himself and another by Frank Mills who showed a TS2068 database program which was obtained from the L.I.S.T. library and is used as a file directory.

John Donaldson, Secretary
Chicago Area Timex Users Group

NEWS ITEMS

Plan to attend the DMA Computer Fest at the Hara Arena and Conference Center in Dayton Saturday and Sunday, August 24th and 25th, 1991. Get your money to Gary Ganger 812 Hedwick St., New Carlisle, OH 45344-2619 for tickets and tables before June 30th. His phone number is 513-849-1483. Talk it up at your user group meetings. The Sinclair clan will be grouped together.

ITEMS FOR SALE THROUGH THE CLUB

LogiCall Integrated Software Ensemble for TS2068 and Spectrum includes LogiCall 4.6 TASWORD II V2.4 VU-CALC VU-FILE and MTERM2 Drivers modified for LogiCall, DISKS.B1 TAPES.B1 steprt.B1 HEADER.BT (tape header reader by Nazir Pashtoon) FORMAT.B MOVE.BL and more all on 2 SSDD disks for \$5. You must specify your LK-DOS EPROM version. If you already have a copy you are encouraged to distribute copies to other LarKen LK-DOS users for as you see by the price we are not in the business of making money on it, just making LarKen's LK-DOS the BEST!

So you like to fly? The 747 Flight Simulator for Spectrum by Derek Ashton of DACC sold over 40K copies in EUROPE. Requires Spectrum Emulator. At this time supplied on LarKen SSDD or DSQD disk only for \$10 which goes to Derek Ashton now working at MOTOROLA, INC., Schaumburg, IL.

Call in requests to Bob Swoger at W708-576-8068 H708-837-7957

Want to try MS-DOS first before you switch? Try QLUmsI DOS, the MS-DOS SIMULATOR on your QL first.

QLuMSi (disk/specify)\$15

Try Al's Side-Kick on your QL. It is an AOS like LogiCall on the TS2068 and can make your life on the QL a lot easier [you may never lust for MS-DOS again!]

QLUSTER (disk/specify)\$10

CALL: Al Feng H(708) 971-0495

GATOR's TWISTED PAIR

!!! R E M E M B E R !!!
We now have a 24 hour BBS and encourage you to exchange mail and contribute to the Download Section. Use it and have fun!

The board has become semi-private at this time. Please call Bob Swoger at 708/576-8068 for information as to how to log on.

Bob Swoger, SYSOP
Chicago Area Timex Users Group

SPECIAL DEALS AND BUYS

It has come to our attention that some LarKen Users are using something less than Version 3 firmware. The club will supply updated EPROMs, SYSTEM DISKS, and MANUALS for just \$5 which includes shipping and handling, free if ordered with LogiCall or Spectrum ROM.

If you are a LarKen LK-DOS owner and would like a SPECTRUM V2 kit for your system we will supply an EPROM, socket and 74HCT32 for \$12 which includes shipping and handling. The install instructions are in your LarKen manual. We shall not be responsible for your install job. AERCO owners need only the SPECTRUM EPROM for \$10

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If you have a mismatch between you LarKen DOS EPROM and your Western Digital Controller chip, we will send you the correct one for free on behalf of our friends Rod Gowen of RMG and Larry Kenny of LarKen.

Call in requests to Bob Swoger
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ARTICLES

Tasword Enhancement

by
James F. Brezina

There are a number of things that were provided for in Tasword Two that are not mentioned in the documentation that was sent with it, most of which I will later explain. Before I do that, I can give a rough outline of the layout of the machine code. I don't know enough about machine code to really give a good explanation of what all the parts do.

At address 33280 to 52480 is stored the text you enter and SAVE. [64 columns X 300 lines equals 19200. WONDER WHAT THE 2304 BITES BETWEEN 52480 AND 54724 ARE DOING? ED.] When Tasword is loaded in and initialized, it is loaded with spaces (CODE 32). This I have checked out and found it to be so. This also explains why I can now do something that I thought might be possible to do.

Using the margin setting function, it is possible to get a two column printout like we

cancel the margin setting (You may want to use the right justify by typing a word and then erasing it.). After cancelling the margin setting, you can then move the cursor to column 33 or 34 and set the left margin with the extended "A" key. After doing that, you return the cursor to the first line and continue typing in your text until you get down to the bottom line of your first column. Should your text require more than one page, you can go through the procedure described above again. You save the text in the two column form and load it back later in the two column form. When printed out on paper, it will be printed in the two column form.

I prefer to use the zeal disassembler because it prints out the address and mnemonics in decimal. It has a few flaws in it, but so do others. None of them is able to distinguish stored numbers or letters from machine code. When I see a section of code that doesn't seem to look right, I enter a short loop program to print the characters of the numbers stored in the addresses in the area. Through this system I have found that the help pages are stored at 54784 to 57955.

I presume address 57956 to 58052 is the printer driver. This presumption is based on a LarKen version of Tasword 2 that was given to me by Bob Swoger. The LarKen system is used with the AERCO printer interface. The AERCO printer interface uses different ports than the Tasman. Numbers were POKEd in addresses in that area to change ports as the original

a Memotech DMX80 (Panasonic KXP 1090). I saw an English pound sign at code 129. I poked that number into address 58117 and got the printer to print the English pound sign although it was in Italics. Because the printhead of the Memotech went bad on me and because a replacement head would have cost me \$125 I bought an Epson at less than \$75 more. However I could no longer print the English pound sign.

Checking through the addresses, I found the character generator storage area at 60929. I marked off 61888 as the end of the generator. I may be wrong on both of these addresses as the disassembly print looks like the generator below and above the addresses. The characters generated are for a 64 column screen.

There are provisions in the MC for changing PAPER and INK colors and for setting BORDER colors. The numbers to be POKed into the controlling addresses are ATTRibute codes. In the listings below, I will show the codes as the letter "C". The method of obtaining the ATTRibute code is to multiply the PAPER color desired by 8 and add the INK color. The addresses to be poked were in articles by Bill Ferrebee in the Jan/Feb 1987 issue of Time Designs, by Duncan R. Teague in the July/Aug 1987 issue of Time Designs, and in the June 1988 issue of our own NITE-TIMES NEWS. The NITE-TIMES NEWS article was credited to John Lambert and Data Expansion and was stated as originating in the May 1985 issue of Sinclair User Magazine. The most

left and right margins.

```
POKE 58508,54
POKE 58509,C
POKE 58517,54
POKE 58518,C
```

The C should be for a contrasting color in the margin so it can be seen.

Next is the addresses for the bottom two lines. C can be the same as the text area or whatever colors you desire.

```
POKE 59993,C (top)
POKE 64570,c (bottom)
```

Now we come to the BORDER colors. The variable B shown can be any one of the color numbers from 0 to 7.

```
POKE 64516,B (64-column)
POKE 60641,B (32-column)
```

At first, the (32-column) puzzled me. Then I realized that, when you switched to the MENU, you were in the 32 column mode.

If an attribute code is 64 to 127, the BRIGHT is turned on. Over 127 the FLASH is turned on. I forget just where the FLASH is turned off, but there are higher attribute numbers. I seem to recall seeing a complete listing of the numbers and their effect but I can't find it now.

Bill Ferrebee added a facility for editing the HELP pages. To do this, one has to relocate the HELP pages (one at a time) down to the text file starting at 33280. Once the HELP page is in the text file, you can move the cursor to the position you

=====

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Using the margin setting function, it is possible to get a two column printout like we see in the newsletter. To do this properly, you must know the exact number of lines that can be printed on a page. The way to do this is to move the cursor to column 30 or 31 and set the right hand margin with extended "D" key. You then return the cursor to the beginning of the line. Then start typing in the text. When you get to the line that is be the last line on the page, you

cancel the margin setting (You may want to use the right justify by typing a word and then erasing it.). After cancelling the margin setting, you can then move the cursor to column 33 or 34 and set the left margin with the extended "A" key. After doing that, you return the cursor to the first line and continue typing in your text until you get down to the bottom line of you first column. Should your text require more than one page, you can go through the procedure described above again. You save the text in the two column form and load it back later in the two column form. When printed out on paper, it will be printed in the two column form.

I prefer to use the zeal disassembler because it prints out the address and mnemonics in decimal. It has a few flaws in it, but so do others. None of them is able to distinguish stored numbers or letters from machine code. When I see a section of code that doesn't seem to look right, I enter a short loop program to print the characters of the numbers stored in the addresses in the area. Through this system I have found that the help pages are stored at 54784 to 57955.

I presume address 57956 to 58052 is the printer driver. This presumption is based on a Larken version of Tasword 2 that was given to me by Bob Swoger. The Larken system is used with the AERCO printer interface. The AERCO printer interface uses different ports than the Tasman. Numbers were POKed in addresses in that area to change ports as the original Tasword was written for the Tasman interface.

Immediately following that section I find a translation table for the printer. Some printers do not print the English pound sign and the original Tasword was set to print the number sign (#). The address for the translation of the English pound sign is 58117. My original printer was

a Memotech DMX80 (Panasonic KXP 1090). I saw an English pound sign at code 129. I poked that number into address 58117 and got the printer to print the English pound sign although it was in Italics. Because the printhead of the Memotech went bad on me and because a replacement head would have cost me \$125 I bought an Epson at less than \$75 more. However I could no longer print the English pound sign.

Checking through the addresses, I found the character generator storage area at 60929. I marked off 61888 as the end of the generator. I may be wrong on both of these addresses as the disassembly print looks like the generator below and above the addresses. The characters generated are for a 64 column screen.

There are provisions in the MC for changing PAPER and INK colors and for setting BORDER colors. The numbers to be POKED into the controlling addresses are ATTRibute codes. In the listings below, I will show the codes as the letter "C". The method of obtaining the ATTRibute code is to multiply the PAPER color desired by 8 and add the INK color. The addresses to be poked were in articles by Bill Ferrebee in the Jan/Feb 1987 issue of Time Designs, by Duncan R. Teague in the July/Aug 1987 issue of Time Designs, and in the June 1988 issue of our own NITE-TIMES NEWS. The NITE-TIMES NEWS article was credited to John Lambert and Data Expansion and was stated as originating in the May 1985 issue of Sinclair User Magazine. The most detailed article was Duncan R. Teague's.

Duncan first lists the addresses to poke for the text area.

```
POKE 58512,54
POKE 58513,C
POKE 58521,54
POKE 58522,c
```

Next is the addresses for the

left and right margins.

```
POKE 58508,54
POKE 58509,C
POKE 58517,54
POKE 58518,C
```

The C should be for a contrasting color in the margin so it can be seen.

Next is the addresses for the bottom two lines. C can be the same as the text area or whatever colors you desire.

```
POKE 59993,C (top)
POKE 64570,c (bottom)
```

Now we come to the BORDER colors. The variable B shown can be any one of the color numbers from 0 to 7.

```
POKE 64516,B (64-column)
POKE 60641,B (32-column)
```

At first, the (32-column) puzzled me. Then I realized that, when you switched to the MENU, you were in the 32 column mode.

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Bill Ferrebee added a facility for editing the HELP pages. To do this, one has to relocate the HELP pages (one at a time) down to the text file starting at 33280. Once the HELP page is in the text file, you can move the cursor to the position you want changed and type the change. Once you have completed the change, you have to relocate the HELP page to its original location. Why change the HELP pages? In my case I changed the action caused by the 1 to 8 graphics to ones I preferred instead of Tasword's original setup.

Bill Ferrebee used a BASIC loop to accomplish the transfer. As

a result, it takes a little time to accomplish the transfers. I tried looking for a routine to accomplish it in machine code but could not find one that looked like it would do it. I did find a few LDIR routines but, the HL and DE addresses didn't match what I needed. I also suspect that there is a routine in the code that transfers the text down into the display file for reading it on the screen.

I've searched through the BASIC program to find anything that looks like the functions performed by the SYMBOL SHIFT keys, but, I can find nothing. These must be performed by the machine code.

I feel I must make a last comment about the Japanese printer makers. I have an Epson printer. There is a set of DIP switches that can be set for different language fonts. If these three switches are set ON, the printer will print the U.S. font. If the middle switch is set OFF, the printer prints the British font. The only difference is that the number sign will print the English pound sign. This is an awful waste of memory. Although the U.S. and the British use different terms for some items our alphabets are the same. In word processors, we both have need to use the number sign, the dollar sign, and the English pound sign.

CATUG PDL1 (QL) DISK

by
Al Feng

The CATUG Public Domain Library disk has recently been updated.

The core of the programs found on the disk were put there by Butch Weinberg [previous keeper of the flame who is temporarily lost in a PC-LIMBO]; and, the sources vary from QUANTUM COMPUTING's utilities and demos to other programs Butch felt were in the Public Domain such as Zitasoft's BOBBY DAZZLER, plus accompanying files.

Most of the programs are in SuperBASIC. The few exceptions include RLE graphics, some aba examples from the QLUG which I've included, programs such as QLUTter [v3.096: intended for use on JSU QLs in TV-mode; but works from monitor-mode, too], QLONE & SnapShot, as well as compiled versions of SuperBASIC programs.

The following is a list of the programs which can be found on the current CATUG PDL1 DISK (720K QL).

poster_maker	check
banner	boot
menue	stb
listing	scribe
usal	backup
size_base	read me
saucer_screen	world
pri_dir	star
RLE	ConnFour
spin_ring_bas2	=====
HARDCOPY	HARDCOPY_doc
QLONE	QLONE_doc
QLad_BAS	QLad_doc
FILE_DIRECTORY	QLad_EXE
QLUTter	QLUTter_doc
SnapShot	SnapShot_doc
QLStdDev_aba	QLflow_aba
QLmulti_aba	QLcheque_aba
QLHouse_aba	QLScale_aba
QLMCalc_aba	QLRepay_aba
QLFourr_aba	README_aba
Fast Disk	Fast_doc
TRA_bas	TRA_doc
TRA_exe	README_exp
MDV_EXECUTIVE_BAS	BASICLOCK
exec_w_cad	cad_doc
MDV2_CLOCK	spcode_bin
starboot_bas	starport_bin
golf	golf_doc
rle_boot	rle_bin
Mickey_rle	fantasia_rle
grap_bin	demol
maze	sound
fractals	bomber
Gprint	trace2
Windows	Trace
tracel	CIPHER
exsound	exsound_doc
four_in_line_bas	finance_bas
DESIGNING WINDOWS	duel_bas
slayer_bas	maze_3d_bas
hack_bas	MDV1_TEMP
clarie_bas	claire_code
snake_bas	snake_code
the_4_bas	THE_4_code
BOBBY_DAZZLER	BOBBY_DEMO
bobby_hlp	dominoes

lottery	cucoo
ql_llist	WORLD_Pic
BICOLc doc	BICOL63_lis
BICOL63_col	BICOL_doc
BI_col_bas	

Of note is that there are some very good utilities [such as Mike Padlipsky & Peter Hale's excellent BI_col_bas (I am sure that this is, UN-fortunately, not the latest version) which allows you to print_lis/txt files in two columns; and, my version 1.2 of Jan Bredenbeek's TRA_bas program which creates code that used for TRANslating CHR\$-output to a SERIAL port.

In addition to QL_ad v2.399 and QLUTter (v3.096), it seems that Butch previously included quite a few utility programs.

There are games. "Snake" is an entertaining, arcade-type game which is well suited for young people.

For the most part, I have to confess that I haven't tried many of the programs on the disk.

The group has decided that the charge for CATUG distributed PDL disks will \$2.00. This includes both the medium cost & the cost of postage/packaging. Be sure to specify whether you want 3.5" or 5.25" (QL 720K).

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AND COMPUTING,
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"Blast! This cinches it! ... If we ever find it
 again, I'm gonna bolt the sucker on!"

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